

05–320 Renewing timing chain

Tightening torque	Nm
Nuts for cylinder head cover	15
Special tool	
Socket 27 mm, 1/2" square, for rotating engine	001 589 65 09 00

Note

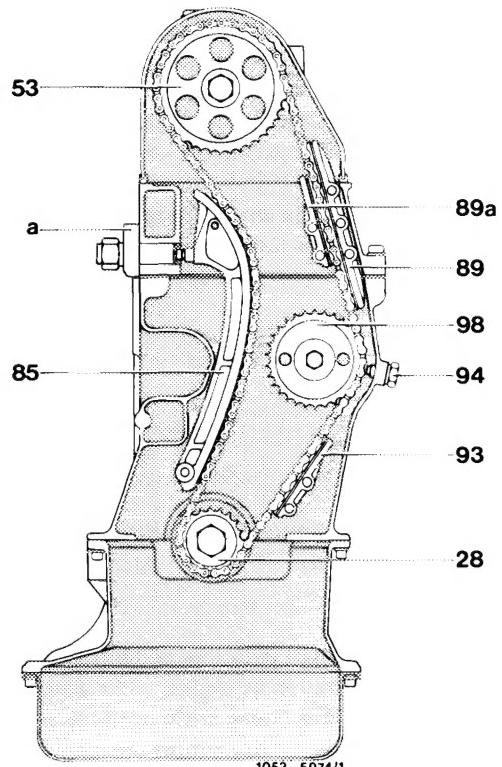
The split timing chain with connecting link is used for repairs.

If an endless timing chain is available, the chain can be opened prior to installation (refer to item 4).

During an engine overhaul, always install an endless timing chain.

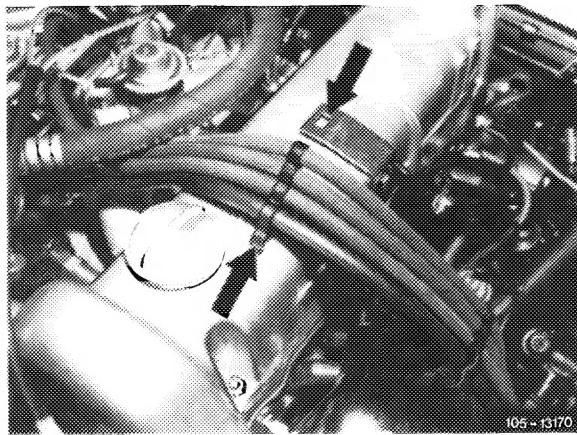
Check sprockets for score marks and pitting.

- | | |
|------------------------|--------------------------|
| 28 Crankshaft sprocket | 93 Slide rail |
| 53 Camshaft sprocket | 94 Chain locking screw |
| 85 Tensioning rail | 98 Intermediate sprocket |
| 89 Outer slide rail | a Chain tensioner |
| 89a Inner slide rail | |

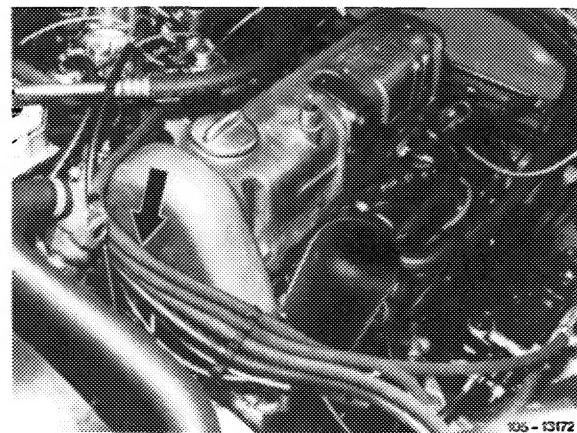


Renewal

- 1 Remove cylinder head cover.** For this purpose, on **AUS**, **J**, **S** and **USA** starting 1977, push out clamp assembly of fuel hoses on holder and pull fuel hoses down with clamp assembly in forward direction over cylinder head cover.



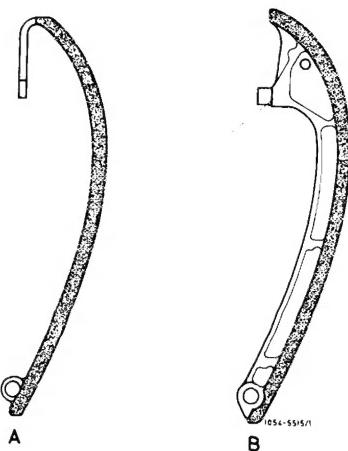
- 2 Unscrew spark plugs.**



- 3 On engines 115.923/926/951 with tensioning rail version (A), remove chain tensioner (05-310).**

On engines with light alloy tensioning rail (B), push back thrust bolt of chain tensioner.

- 4 Cover chain box with a rag and grind off both chain bolts on one link of timing chain.**

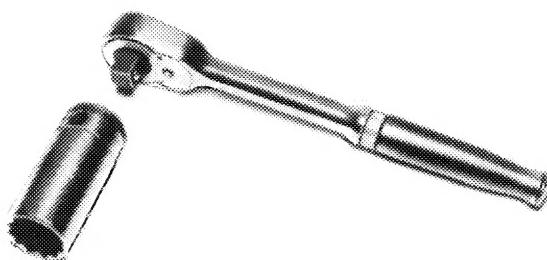


- 5 Attach new timing chain with a connecting link to old timing chain while pushing out opened link (Fig. item 7).**

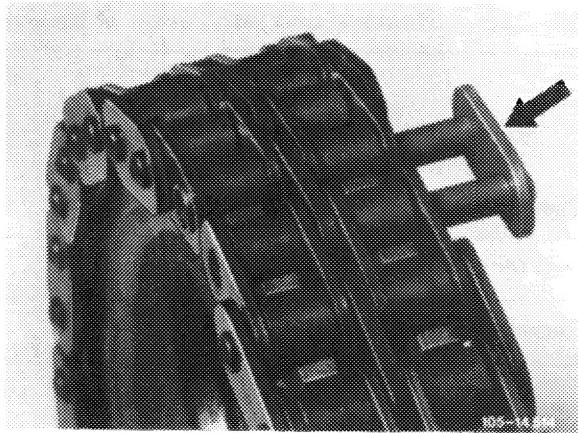
- 6 Turn crankshaft with tool combination slowly in direction of rotation of engine, while simultaneously pulling up the old timing chain until the connecting link comes to rest at uppermost position of camshaft sprocket.**

Attention!

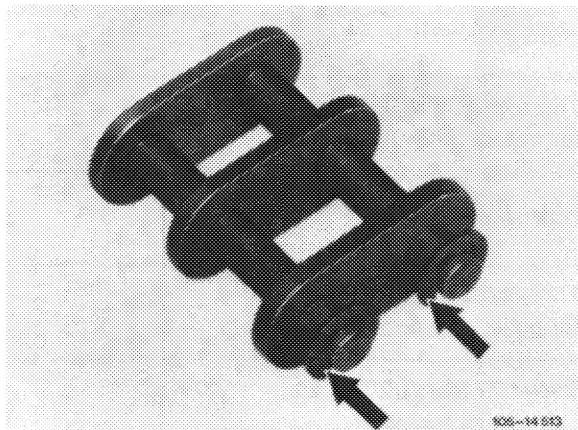
Timing chain should remain in mesh with camshaft sprocket during rotation.



7 Disconnect old timing chain and connect the ends of the new timing chain by means of a connecting link. Mount lock washers.



Note: Insert new connecting link from the rear so that the lock washer can be seen from the front.



8 Rotate crankshaft and check adjusting marks at TDC position of engine.

9 Install chain tensioner (05-310).

10 Screw-in spark plugs and mount cylinder head cover.

